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Application Number	10/720,967
Filing Date	NOVEMBER 24, 2003
First Named Inventor	VLADIMIR GRUSHIN
Group Art Unit	2813
Examiner Name	UNKNOWN
Attorney Docket Number	PE0649USDIV7

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₆
		CountryCode ³ Number ⁴ Kind Code ⁵ (If known)				
SN		EP 1 191 614 A2	03-27-2002	Canon Kabushiki Kaisha		<input type="checkbox"/>
ER		WO 00/57676 A1	09-28-2000	Univ. of Southern California		<input type="checkbox"/>
ER		WO 01/41512 A1	06-07-2001	Princeton Univ & University of Southern California		<input type="checkbox"/>
SN		WO 02/02714 A2	01-10-2002	DuPont		<input type="checkbox"/>
ER		WO 02/15645 A1	02-21-2002	Princeton Univ, Univ of So Cal & Universal Display		<input type="checkbox"/>
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Examiner Signature		Date Considered	4/9/2005
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0551-0031

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/720,987
		Filing Date	November 24, 2003
		First Named Inventor	VLADIMIR GRUSHIN ET. AL.
		Group Art Unit	2813
		Examiner Name	UNKNOWN
		Attorney Docket Number	PE0649USDIV7
Sheet	2	of	2

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		LAMANSKY, SERGEY ET AL., Highly Phosphorescent Bis-Cyclometalated Iridium Complexes: Synthesis, Photophysical Characterization, and Use in Organic Light Emitting Diodes, <i>J. Am. Chem. Soc.</i> , 2001, 4304-4312, 123, American Chemical Society	<input type="checkbox"/>
		LAMANSKY, SERGEY ET AL., Synthesis and Characterization of Phosphorescent Cyclometalated Iridium Complexes, <i>Inorg. Chem.</i> 2004, 4304-4312, 46, American Chemical Society	<input type="checkbox"/>
		LAMANSKY, SERGEY ET AL., Molecularly doped polymer light emitting diodes utilizing phosphorescent Pt(II) and Ir(III) dopants, <i>Organic Electronics</i> , 2001, 53-62, 2, Elsevier Science B.V.	<input type="checkbox"/>
EX		ABSTRACT OF JAPANESE PCT Publication WO02/44 189 A1, Luminescent Element and Display, 06-06-2002, Canon Kabushiki Kaisha	<input type="checkbox"/>
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				Application Number	09/879,014
				Filing Date	JUNE 12, 2001
				First Named Inventor	VLADIMIR GRUSHIN ET AL.
				Group Art Unit	2811
				Examiner Name	UNKNOWN
				Attorney Docket Number	PE0649 US NA
Sheet	1	of	1		

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105 of 11/24/03 ①

Substitute for form 1449A/PTO				Complete if Known	
				Application Number	09/879,014
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Filing Date	JUNE 12, 2001
				First Named Inventor	VLADIMIR GRUSHIN ET AL.
				Group Art Unit	2913
				Examiner Name	KIELIN, ERIK J
Sheet	1	of	2	Attorney Docket Number	PE0649 US NA

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)				
EK		US -	2001/0019782 A1	09/06/2001	IGARASHI ET AL.	
		US -	2001/0053462 A1	12/20/2001	MISHIMA	
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		CountryCode ³	Number ⁴	Kind Code ⁵ (if known)				
FL		EP	1175128	A2	01/23/2002	FUJI PHOTO FILM CO.		<input type="checkbox"/>
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IDS of 11/24/03 (2)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/879,014
		Filing Date	JUNE 12, 2001
		First Named Inventor	VLADIMIR GRUSHIN ET AL.
		Group Art Unit	2913
		Examiner Name	KIELIN, ERIK J
Sheet 2 of 2	Attorney Docket Number	PE0649 US NA	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
ER		DJUROVICH, PETER I. ET AL., Ir(III) Cyclometalated Complexes As Efficient Phosphorescent Emitters in Polymer Blend and Organic LEDs, Polymer Preprints, 2000, 770-771, 41(1)	<input type="checkbox"/>
ER		CHATANI, NAOTO ET AL., Ru3(CO)12-Catalyzed Reaction of Pyridylbenzenes with Carbon Monoxide and Olefins. Carbonylation at a C-H Bond in the Benzene Ring, J. Org. Chem., 1997, 2804-2810, 62, American Chemical Society	<input type="checkbox"/>
ER		GOSMINI, CORINNE ET AL., Electrosynthesis of functionalized 2-arypyridines from functionalized aryl and pyridine halides catalyzed by nickel bromide 2,2'-bipyridine complex, Tetrahedron Letters, 2000, 5039-5042, 41, Elsevier Science Ltd.	<input type="checkbox"/>
ER		CACCHI, SANDRO ET AL., The Palladium-Catalyzed Transfer Hydrogenation/Heterocyclization of B-(2-Aminophenyl)-a,B-ynones. An Approach to 2-Aryl- and 2-Vinylquinolines, Synlett, 1999, 401-404, No. 4, Thieme Stuttgart, New York	<input type="checkbox"/>
ER		BALDO, M. A. ET AL., Very high-efficiency green organic light-emitting devices based on electrophosphorescence, Applied Physics Letters, July 5, 1999, 4-6, 75(1) American Institute of Physics	<input type="checkbox"/>
ER		BALDO, M. A. ET AL., High-efficiency fluorescent organic light-emitting devices using a phosphorescent sensitizer, Nature, February 17, 2000, 750-753, 403, Macmillan Magazines Ltd.	<input type="checkbox"/>
ER		WANG, YUE ET AL., (Hydroxyphenyl)pyridine derivative, its metal complexes and application as electroluminescence material, Chemical Abstracts Service, March 1, 2000, Database No. 133:315395	<input type="checkbox"/>
ER		DEDEIAN K. ET AL., A New Synthetic Route to the Preparation of a Series of Strong Photoreducing Agents: fac Tris-Ortho-Metalated Complexes of Iridium(III) with Substituted 2-Phenylpyridines, Inorg. Chem., 1991, 1685-1687, 30(8), American Chemical Society	<input type="checkbox"/>
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A hand-drawn diagram of a cell. It consists of an oval shape representing the cell membrane. Inside the oval is a smaller circle representing the nucleus. To the right of the oval is a small square box containing a plus sign (+). An arrow points from the left towards the cell.

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Approved for use through 10/31/2002. OMB 0651-0031
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>09/879,014</td> </tr> <tr> <td>Filing Date</td> <td>JUNE 11, 2001</td> </tr> <tr> <td>First Named Inventor</td> <td>VLADIMIR GRUSHIN ET AL.</td> </tr> <tr> <td>Group Art Unit</td> <td>2811</td> </tr> <tr> <td>Examiner Name</td> <td>UNKNOWN</td> </tr> <tr> <td>Attorney Docket Number</td> <td>PE0649 US NA</td> </tr> </table>		Application Number	09/879,014	Filing Date	JUNE 11, 2001	First Named Inventor	VLADIMIR GRUSHIN ET AL.	Group Art Unit	2811	Examiner Name	UNKNOWN	Attorney Docket Number	PE0649 US NA
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First Named Inventor	VLADIMIR GRUSHIN ET AL.														
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Examiner Name	UNKNOWN														
Attorney Docket Number	PE0649 US NA														
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		BALDO, M.A. et al., High-efficiency fluorescent organic light-emitting devices using a phosphorescent sensitizer, <i>Nature</i> , February 17, 2000, 750-753, Vol. 403	
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		BALDO, M.A. et al., Very high-efficiency green organic light-emitting devices based on electrophorescence, <i>Applied Physics Letters</i> , July 5, 1999, 4-6, 75(1), American Institute of Physics	
Ek		LOHSE, OLIVIER, et al., The Palladium Catalysed Suzuki Coupling of 2- and 4-Chloropyridines, <i>Synlett</i> , 1999, 45-48, No. 1, Thieme Stuttgart, New York	
Ek		BALDO, M.A. et al., Highly efficient phosphorescent emission from organic electroluminescent devices, <i>Nature</i> , September 10, 1998, 151-154, Vol 395	
		DEDEIAN, K. et al., A New Synthetic Route to the Preparation of a Series of Strong Photoreducing Agents: fac-Tris-Ortho-Metalated Complexes of Iridium (III) with Substituted 2-Phenylpyridines, <i>Inorganic Chemistry</i> , 1991, 1685-1687, 30(8)	

Examiner Signature		Date Considered	4/9/05
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IDS of 11/24/03 (7) Notice of References Cited	Application/Control No. 09/879,014	Applicant(s)/Patent Under Reexamination GRUSHIN ET AL	
	Examiner Erik Kielin	Art Unit 2813	Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
EX	A	US-3,718,488	02-1973	Trofimenko et al.	106/1.28
EX	B	US-2002/0064681 A1	09-2001	Takiguchi et al.	428/690
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
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	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)			
EX	X	U	Thompson et al. "Ir(III) cyclometalated complexes as efficient phosphorescent emitters in polymer blend organic LEDs" Polymer Preprints 41(1), 2000, pp. 770-771.		
EX	X	V	Dedeian et al. "A new synthetic route to the preparation of a series of strong photoreducing agents: fac tris-ortho-metalated complexes of iridium(III) with substituted 2-phenylpyridines" Inorganic Chemistry, Vol. 30, 1991, 1685-1687.		
		W			
		X			

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
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Erik Kielin 4/9/2005